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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: Aquatic Studies to Support Biobrom
FROM: James W. Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)
TO: Walter Francis, PM-32
Disinfectant Branch
Registration Division (H7505C)

In response to the registrant's letter dated August 2, 1990, requesting status of the rainbow trout Early Life Stage study; One reviewer found the study acceptable and the other reviewer rejected the study.

We reviewed the branch files and found the rainbow trout early life stage study acceptable to support registration. The supplemental study reviewed on 7-26-88 has been upgraded to core status making both reviewers' studies acceptable to support registration.

The Daphnia magna life-cycle study remains supplemental. However, this study can be used to support Biobrom C-103 and Biobrom C-103L registration for once-through use only. The dilution factor, short half-life of DBNPA at pH 7.0 (18.0 hours), and use pattern are factors which should reduce the exposure time of Daphnia magna to DBNPA. We believe the high turnover rate per day, and unstable food supply caused mortality and the growth effect. However, to support all uses, such as for reregistration, another study must be done.

The following data remain outstanding:

1) A monitoring study to determine the intensity and duration of exposure of DBNPA in natural waters receiving discharge from treated cooling water systems.

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